

CLAIMS

1. A test system for primary and secondary brakes in a vehicle, comprising:

a two-position combination first valve having a first inlet coupled to a primary air supply, a second inlet coupled to a test air supply, and an outlet coupled to said primary brakes;

a two-position combination second valve having a first inlet coupled to a secondary air supply, a second inlet coupled to said test air supply, and an outlet coupled to said secondary brakes;

a system selector switch assembly for selectively providing current to one or both of said first and second valves responsive to a test signal input wherein each of said first and second valves directs fluid flow from one of said first and second inlets to said outlet.

2. A test system as described in claim 1, further including a pressure regulator valve to regulate the pressure of said test air supply.

3. A test system as described in claim 2, wherein said regulator valve is adjustable.

4. A test system as described in claim 1, further including an emergency override switch assembly to cause one of said first or second valves to couple said first inlet to said outlet regardless of a position of said system selector switch.

5. A test system as described in claim 4, wherein said override switch assembly causes both of said first and second valves to couple said first inlet to said second outlet.

6. A test system as described in claim 4, wherein said emergency override switch assembly is electrically actuated.

7. A test system as described in claim 6, wherein said emergency override switch assembly includes a relay.

8. A test system as described in claim 4, wherein said override switch assembly is actuated by movement of a brake treadle.

9. A test system as described in claim 1, having a regulated air apply switch to provide activation of said system selector switch.

10. A test system for primary and secondary brakes in a vehicle, comprising:

a two-position combination first valve having a first inlet coupled to a primary air supply, a second inlet coupled to a test air supply, and an outlet coupled to said primary brakes;

a two-position combination second valve having a first inlet coupled to a secondary air supply, a second inlet coupled to said test air supply, and an outlet coupled to said secondary brakes;

a system selector switch assembly for selectively providing current to one or both of said first and second valves responsive to an operator input, wherein each of said first and second valves directs fluid flow from one of said first and second inlets to said outlet;

an adjustable air regulator regulating the pressure of said test air supply; and

an emergency override switch assembly actuated by a treadle to cause said first and second valves to couple said first inlets to said outlets regardless of a position of said system selector switch assembly.